Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 2 of 6

Applicant(s):

HANSON et al. 09/814,252

Serial No.: Confirm. No.:

6198

Filed:

21 March 2001

For:

PRIMERS FOR USE IN DETECTING BETA-LACTAMASES

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the aboveidentified application:

Listing of Claims

- 1-2. (canceled)
- 4-5. (canceled)
- 7-10. (canceled)
- 11. (previously presented) A primer selected from the group of:
 - 5' CTC GAT GAT GCG TGC TTC GC 3' (SEQ ID NO:32);
- 5'- GCG ACT GTG ATG TAT AAA CG 3' (SEQ ID NO:33); and full-length complements thereof.
- 17. (withdrawn currently amended) A method for identifying a <u>PSE1</u>, <u>PSE4</u>, <u>or CARB3</u> family beta-lactamase <u>within a Gram Negative organism</u> in a clinical sample, the method comprising:

providing a pair of oligonucleotide primers, each having 15-35 nucleotides, specific for nucleic acid characteristic of the PSE1, PSE4, and CARB3 beta-lactamase enzymes, wherein one primer of the pair is complementary to at least a portion of the beta-lactamase nucleic acid in the sense strand and the other primer of each pair is complementary to at least a portion of the beta-lactamase nucleic acid in the antisense strand;

annealing the primers to the beta-lactamase nucleic acid;

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 3 of 6

Applicant(s):

HANSON et al.

Serial No.: Confirm. No.:

09/814**.2**52 6198

Filed:

21 March 2001

For:

PRIMERS FOR USE IN DETECTING BETA-LACTAMASES

simultaneously extending the annealed primers from a 3' terminus of each primer to synthesize an extension product that is complementary to the nucleic acid strands annealed to each primer wherein each extension product after separation from the beta-lactamase nucleic acid serves as a template for the synthesis of an extension product for the other primer of each pair;

separating the amplified products; and analyzing the separated amplified products for a region characteristic of the beta-lactamase.

- 18-21. (canceled)
- 24-27. (canceled)
- 30-37. (canceled)
- 38. (withdrawn currently amended) The method of claim [37] 17 wherein the primers are selected from the group of:
 - 5' CTC GAT GAT GCG TGC TTC GC 3' (SEQ ID NO:32);
- 5'- GCG ACT GTG ATG TAT AAA CG 3'(SEQ ID NO:33); and full-length complements thereof.
- 49-55 (canceled)
- 56. (currently amended) A diagnostic kit for detecting a PSE1, PSE4, or CARB3 family betalactamase within Gram Negative organisms which comprises packaging, containing, separately packaged:

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 4 of 6

Applicant(s):

HANSON et al.

Serial No.:

09/814,252

Confirm. No.: Filed:

6198 21 March 2001

For:

PRIMERS FOR USE IN DETECTING BETA-LACTAMASES

- (a) at least one primer pair capable of hybridizing to a beta-lactamase nucleic acid characteristic of the PSE1, PSE4, [or] and CARB3 families of beta-lactamase enzymes, wherein each primer of the pair includes 15-35 nucleotides;
 - (b) a positive and negative control; and
- (c) a protocol for identification of the beta-lactamase nucleic acid characteristic of the PSE1, PSE4, or CARB3 families of beta-lactamase enzymes.
- 57. (previously presented) The kit of claim 56 wherein at least one of the primers is selected from the group consisting of:
- 5' CTC GAT GAT GCG TGC TTC GC 3' (SEQ ID NO:32);
- 5' GCG ACT GTG ATG TAT AAA CG 3' (SEQ ID NO:33); and full-length complements thereof.